

WQA  
FIELD FORM

248

DATE: 8/17/92AIR TEMP: 102° FSAMPLER(S): HMS, MHS, DJRWATER BODY: Carbon Canyon Creek

## SAMPLE LOCATION

#1: (1335) Downstream of La Vida Mineral Springs#2: (1400) upstream of La Vida Mineral Springs (sandy bottom)#3: (1240) Carbon Cyn Golf Course

#4: \_\_\_\_\_

H<sub>2</sub>O TEMP: #1 22.9pH: #1 7.26EC: #1 400 (151)#2 23#2 7.86#2 166 (120)#3 23#3 7.86#3 162 (130)

#4 \_\_\_\_\_

#4 \_\_\_\_\_

#4 \_\_\_\_\_

LAB ANALYSIS: NBAS Fecal Strep E. coli Escherichia coliMineralsFecal Coli

\_\_\_\_\_

NutrientsTotal Col

\_\_\_\_\_

COMMENTS: \* See Map from 1985 for Sampling Sites\_\_\_\_\_  
\_\_\_\_\_

## PURPOSE

The purpose of sampling Carbon Canyon Creek was to evaluate water quality. Carbon Canyon Creek was last sampled 3/11/1985. Sampling was performed to evaluate whether the Basin Plan Objectives objective of a rec-1 water body were being met. This data will also be compared to previous data taken in 1985 in order to evaluate if trends in water quality parameters are occurring. (Sampling sites were selected to duplicate 1985 sites.)

## DISCUSSION

This creek currently is not listed in the Basin Plan and thus shows no beneficial uses or water quality objectives. This waterbody may be included in the next amendment as a rec-1 waterbody and so these objectives will be compared to the data. The objective for Fecal Coliform states the log mean is less than 200/100 ml based on five or more samples in a 30 day period, and not more than 10% of the samples exceed 400/100 ml for any 30-day period. Only 3 samples were taken on this creek, thus the first part of the objective can not be compared. The latter part states the objective is 400/100 ml for 90% of the samples over 30-day period. All but one of the sites would then meet this objective. This is the 2nd site with a fecal coliform count of 5000 MPN. In 1985 the coliform samples were analyzed by lab incorrectly and thus produced no results. Nitrates went down at all stations in 1992 compared to 1985 data. The other constituent which seem to stand out when compared to 1985 data is TDS. TDS was lower in two stations and higher at the golf course station. The levels of TDS are still predominately high, even though they went down in 1992. The results that did increase in 1992 compared to 1985 data may have increased due to the time of year the 1992 results were obtained. 1985 sampling was done in the spring while the 1992 sampling was performed in the late summer months.

Table 1

Carbon Canyon Creek  
1992 vs. 1985

Constituent	1992 #1	1985 #2		1992 #2	1985 #3		1992 #3	1985 #6
Alkalinity	1060	650		398	350		504	325
Bicarbonate	1293	793		486	427		615	397
Boron	2.08	1.2		0.32	0.3		0.24	0.1
Calcium	65	110		122	160		229	160
Carbonate	ND	ND		ND	ND		ND	ND
Chloride	470	321		194	204		177	96
Flouride	1.17	0.7		0.72	0.5		0.56	0.4
Iron	0.03	0.15		ND	0.03		ND	0.3
Magnesium	77	90		109	105		73	46
Nitrate	0.7	2.9		0.3	2.9		0.3	4.9
Potassium	5.4	5		4.2	4		3.9	2
Sodium	712	455		168	166		133	65
Sulfate	330	475		408	560		350	260
Tl. Anions	41.37	32.15		21.95	24.63		22.38	14.98
Tl. Cations	40.68	33		22.46	24.57		23.31	14.76
TDS	2320	2940		1300	1500		1320	870
Hardness	479	650		752	838		871	592
Tl. Phosphate	0.27	ND		0.11	ND		0.32	0.5
MBAS	ND	0.1		ND	<0.1		ND	0.1
Temperature	27.9	19		23	16		23	18

**Carbon Canyon Creek**  
8/17/92

Constituent	Method	Results		
		DnMin	UpMin	Golf
Alkalinity	SM 403	1060	398	504
Ammonia	EPA 350.2	ND	ND	ND
Bicarbonates	SM403	1293	486	615
Boron	SM 200.7	2.08	0.32	0.24
Calcium	EPA 200.7	65	122	229
Carbonates	SM 403	ND	ND	ND
Chloride	A1000	470	194	177
EC	EPA 120.1	3790	1920	1940
Flouride	EPA 200.7	1.17	0.72	0.56
Iron	EPA 200.7	0.03	ND	ND
Magnesium	EPA 200.7	77	109	73
Nitrate-N	B1011	3	1.3	1.55
pH	EPA 150.1	7.47	7.33	7.19
Potassium	EPA 200.7	5.4	4.2	3.9
Sodium	EPA 200.7	712	168	133
Sulfate	A1000	330	408	350
Tl. Anions	Calc.	41.37	21.95	22.38
Tl. Cations	Calc.	40.68	22.46	23.31
TDS	EPA 160.1	2320	1300	1320
Tl. Hardness	Calc.	479	752	871
Tl. Phosphate	EPA 365.2	0.27	0.11	0.32
Ammonia-N	EPA 350.2	ND	ND	ND
Kjeldahl-N	EPA 351.3	1.5	0.7	1.1
Nitrate-N	B1011	0.7	0.3	0.3
Nitrite-N	B1011	0.5	ND	ND
Organic-N	Calc.	1.5	0.7	1.1
Tl. Nitrogen	EPA 350.2	2.2	1	1.4
Ortho-phos	EPA 365.2	0.23	0.08	0.35
Tl. Phos	EPA 365.2	0.27	0.11	0.39
MBAS	EPA 425.1	ND	ND	ND
Tl. Coliform		2400	9000	2400
Fec. Coliform		240	5000	300
Fecal Strep		50	23	30
Enterococcus		45	18	25
Temp.		27.9	23	23
pH		8.26	7.86	7.86
EC		4000	1600	1600

Carbon Lyn #1

8/17/92

Temp - 100°F

NBAS/Minerals

Nutrients  $H_2SO_4 + Plain$

Time 1335-

Fecalstrip/Fecal/Total Coli/Enterococcus

pH 8.26

temp 27.9 (31)

EC 4000

Carbon Lyn #2

(sandy bottom)

time: 1400

pH 7.86

temp 23 (26)

EC 1600

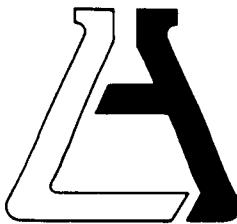
Carbon Lyn #3

time: 1440

pH ~~7.8~~ 7.86

temp ~~23.2~~ (26)

EC ~~1600~~ 1600



## ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

### CLIENT

California Regional Water (1079) LAB NO. G36088-01  
Quality Control Board  
Attn: Nancy Martin  
2010 Iowa Ave. Suite 100  
Riverside, CA 92507  
REPORTED 09/16/92

SAMPLE Wastewater - H.S. RECEIVED 08/18/92  
IDENTIFICATION Carbon Canyon #1 - Water Quality Assessment  
Date Collected 08/17/92 @ 1335 Hrs.  
As Submitted

BASED ON SAMPLE

### STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>	
Alkalinity	SM 403	1,060	mg/l
Ammonia	EPA 350.2	ND <0.1	mg/l
Bicarbonates	SM 403	1,293	mg/l
Boron	SM 200.7	2.08	mg/l
Calcium	EPA 200.7	65	mg/l
Carbonates	SM 403	ND <1	mg/l
Chloride	A1000	470	mg/l
Electrical Conductivity	EPA 120.1	3,790	µmhos/cm
Fluoride	EPA 200.7	1.17	mg/l
Iron	EPA 200.7	0.03	mg/l
Magnesium	EPA 200.7	77	mg/l
Nitrate Nitrogen	B1011	3.0	mg/l
pH	EPA 150.1	7.47	
Potassium	EPA 200.7	5.4	mg/l
Sodium	EPA 200.7	712	mg/l
Sulfate	A1000	330	mg/l
Total Anions	Calculated	41.37	meq/l
Total Cations	Calculated	40.68	meq/l
Total Dissolved Solids	EPA 160.1	2,320	mg/l
Total Hardness	Calculation	479	mg/l
Total Phosphate	EPA 365.2	0.27	mg/l

Continued on Page 2



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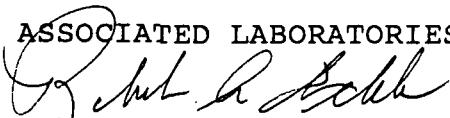
Client : California Regional Water  
Quality Control Board  
Lab No.: G36088-01

**COMBINED NUTRIENT ANALYSIS**

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	1.5 mg/l
Nitrate Nitrogen	B1011	0.7 mg/l
Nitrite Nitrogen	B1011	0.5 mg/l
Organic Nitrogen	Calculation	1.5 mg/l
Total Nitrogen	EPA 350.2	2.2 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.23 mg/l
Total Phosphorus	EPA 365.2	0.27 mg/l

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		2,400 MPN/100mls
Fecal Coliform		240 MPN/100mls
Fecal Strep.		50 MPN/100mls
Enterococcus		45 Col/100mls

ASSOCIATED LABORATORIES: by:

  
Robert A. Webber  
Vice President

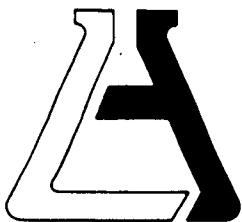
RAW/jaw

SAWPA DES



001004635





## ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

### CLIENT

California Regional Water (1079) LAB NO. G36088-02  
Quality Control Board  
Attn: Nancy Martin  
2010 Iowa Ave. Suite 100  
Riverside, CA 92507  
REPORTED 09/16/92

SAMPLE Wastewater - H.S. RECEIVED 08/18/92  
IDENTIFICATION Carbon Canyon #2 - Water Quality Assessment  
Date Collected 08/17/92 @ 1400 Hrs.  
As Submitted  
BASED ON SAMPLE

### STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Alkalinity	SM 403	398 mg/l
Ammonia	EPA 350.2	ND <0.1 mg/l
Bicarbonates	SM 403	486 mg/l
Boron	SM 200.7	0.32 mg/l
Calcium	EPA 200.7	122 mg/l
Carbonates	SM 403	ND <1 mg/l
Chloride	A1000	194 mg/l
Electrical Conductivity	EPA 120.1	1,920 $\mu\text{mhos}/\text{cm}$
Fluoride	EPA 200.7	0.72 mg/l
Iron	EPA 200.7	ND <0.007 mg/l
Magnesium	EPA 200.7	109 mg/l
Nitrate Nitrogen	B1011	1.3 mg/l
pH	EPA 150.1	7.33
Potassium	EPA 200.7	4.2 mg/l
Sodium	EPA 200.7	168 mg/l
Sulfate	A1000	408 mg/l
Total Anions	Calculated	21.95 meq/l
Total Cations	Calculated	22.46 meq/l
Total Dissolved Solids	EPA 160.1	1,300 mg/l
Total Hardness	Calculation	752 mg/l
Total Phosphate	EPA 365.2	0.11 mg/l

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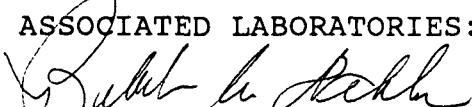
Client : California Regional Water  
Quality Control Board  
Lab No.: G36088-02

**COMBINED NUTRIENT ANALYSIS**

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	0.7 mg/l
Nitrate Nitrogen	B1011	0.3 mg/l
Nitrite Nitrogen	B1011	ND <0.03 mg/l
- Organic Nitrogen	Calculation	0.7 mg/l
Total Nitrogen	EPA 350.2	1.0 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.08 mg/l
Total Phosphorus	EPA 365.2	0.11 mg/l

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		9,000 MPN/100mls
Fecal Coliform		5,000 MPN/100mls
Fecal Strep.		23 MPN/100mls
Enterococcus		18 Col/100mls

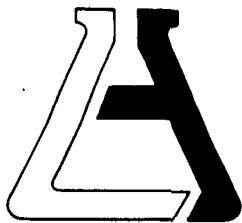
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Robert A. Webber  
Vice President

RAW/jaw

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001004637





## ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92668 - 714/771-6900

FAX 714/538-1209

### CLIENT

California Regional Water (1079) LAB NO. G36088-03  
Quality Control Board  
Attn: Nancy Martin  
2010 Iowa Ave. Suite 100  
Riverside, CA 92507  
REPORTED 09/16/92

SAMPLE Wastewater - H.S. RECEIVED 08/18/92  
IDENTIFICATION Carbon Canyon #3 - Water Quality Assessment  
Date Collected 08/17/92 @ 1440 Hrs.  
As Submitted  
BASED ON SAMPLE

### STANDARD MINERAL ANALYSIS

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Alkalinity	SM 403	504 mg/l
Ammonia	EPA 350.2	ND <0.01 mg/l
Bicarbonates	SM 403	615 mg/l
Boron	SM 200.7	0.24 mg/l
Calcium	EPA 200.7	229 mg/l
Carbonates	SM 403	ND <1 mg/l
Chloride	A1000	177 mg/l
Electrical Conductivity	EPA 120.1	1,940 $\mu$ hos/cm
Fluoride	EPA 200.7	0.56 mg/l
Iron	EPA 200.7	ND <0.007 mg/l
Magnesium	EPA 200.7	73 mg/l
Nitrate Nitrogen	B1011	1.55 mg/l
pH	EPA 150.1	7.19
Potassium	EPA 200.7	3.9 mg/l
Sodium	EPA 200.7	133 mg/l
Sulfate	A1000	350 mg/l
Total Anions	Calculated	22.38 meq/l
Total Cations	Calcutated	23.31 meq/l
Total Dissolved Solids	EPA 160.1	1,320 mg/l
Total Hardness	Calculation	871 mg/l
Total Phosphate	EPA 365.2	0.32 mg/l

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Client : California Regional Water

Quality Control Board

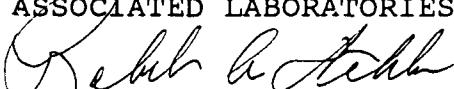
Lab No.: G36088-03

**COMBINED NUTRIENT ANALYSIS**

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
Ammonia Nitrogen	EPA 350.2	ND <0.1 mg/l
Kjeldahl Nitrogen	EPA 351.3	1.1 mg/l
Nitrate Nitrogen	B1011	0.3 mg/l
Nitrite Nitrogen	B1011	ND <0.03 mg/l
Organic Nitrogen	Calculation	1.1 mg/l
Total Nitrogen	EPA 350.2	1.4 mg/l
Orthophosphate Phosphorus	EPA 365.2	0.35 mg/l
Total Phosphorus	EPA 365.2	0.39 mg/l

<u>Constituent</u>	<u>Method</u>	<u>Results</u>
MBAS	EPA 425.1	ND <0.05 mg/l
Total Coliform		2,400 MPN/100mls
Fecal Coliform		300 MPN/100mls
Fecal Strep.		30 MPN/100mls
Enterococcus		25 Col/100mls

ASSOCIATED LABORATORIES: by:



Robert A. Webber  
Vice President

RAW/jaw

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001004639



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
 SANTA ANA REGION  
 1010 IOWA AVENUE, SUITE 100  
 RIVERSIDE, CA 92507-2409  
 PHONE: (714) 782-4130



CHAIN OF CUSTODY RECORD

Date 8/17/92 Page 1 of 1

LABORATORY ASSOCIATED		PROJECT MANAGER HOPE SMYTHE						
SECTION PLANNING		PHONE NUMBER 782-4493						
PROJECT NAME WATER QUALITY ASSESSMENT		SAMPLERS: (Signature) <i>Michele Shaughnessy</i>						
SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE		SOLID	NO. OF CNTNRS	TESTS REQUIRED
				WATER Comp.	AIR Grab.			
1	Carbon Cyn #1	8/17	1335	✓			5	MBAS, Minerals, Fecal Coli, Total Coli Fecal Strep, Enterococcus, Nutrients
2	Carbon Cyn #2	8/17	1400	✓			5	"
3	Carbon Cyn #3	8/17	1440	✓			5	"
Abandoned by: (Signature) <i>Michele Shaughnessy</i>		Received by: (Signature) <i>Dee</i>						Date/Time <u>8/18/92 030</u>
Abandoned by: (Signature) <i>Dee</i>		Received by: (Signature) <i>Reef Smythe</i>						Date/Time <u>8/18/92 11:00 AM</u>
Abandoned by: (Signature)		Received by Mobile Laboratory for field analysis: (Signature)						Date/Time
Shipped by: (Signature)		Date/Time		Received for Laboratory by:				Date/Time
Method of Shipment:								
Special Instructions:								TASK CODE
								ESTIMATED COST

## CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

IRITA ANA REGION  
1000 W. OCEAN AVENUE, SUITE 100  
LONG BEACH, CA 90507-2409  
PHONE: (714) 782-4130



## CHAIN OF CUSTODY RECORD

Date 8/17/92 Page 1 of 1

LABORATORY

ASSOCIATED

PROJECT MANAGER

HOPE SMYTHE

MISSION

PLANNING

PHONE NUMBER

782-4493

PROJECT NAME

WATER QUALITY ASSESSMENT

SAMPLERS: (Signature)

*Michele Shaughnessy*

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE			SOLID	NO. OF CONTAINERS	TESTS REQUIRED
				WATER Comp.	WATER Grab.	AIR			
1	Carbon Cyn #1	8/17	1335		✓			5	TBAS, Minerals, Fecal Coli, Total Coli Fecal Strep, Enterococcus, Nutrients
2	Carbon Cyn #2	8/17	1400		✓			5	"
3	Carbon Cyn #3	8/17	1440		✓			5	"

Released by: (Signature)

*Michele Shaughnessy*

Received by: (Signature)

*John*

Date/Time

8/18/92 83

Date/Time

Released by: (Signature)

Received by: (Signature)

Released by: (Signature)

Received by Mobile Laboratory for field analysis:  
(Signature)

Date/Time

Received by: (Signature)

Received for Laboratory by:

Date/Time

Date of Shipment

Instructions:

TASK CODE

ESTIMATED COST \$700.00

# Carbon Canyon Creek

Date: 2/27/85

Tests: MBAS

Minerals-general

Total Coli/Fecal Coli

Sample Stations:

1. Carbon Canyon Regional Park

(One mile NE of Valencia on Carbon Canyon Road (Hwy. 142)

2. Downstream from La Vida Mineral Springs

At road crossing - 3.3 miles NE of Valencia on  
Carbon Canyon Road (Hwy. 142)

3. Upstream from La Vida Mineral Springs

3.6 miles NE of Valencia on Carbon Canyon Road  
(Hwy. 142)

4. Rosemary Lane-Sleepy Hollow

4.7 miles NE of Valencia on Carbon Canyon Road  
(Hwy. 142)

(2)

## Carbon Canyon Creek - Continued:

5. Upstream of Sleepy Hollow

5.6 miles NE of Valencia on Carbon Canyon  
Road (Hwy. 142)

(.2 mi. of Canyon Hills Road)

6. Carbon Canyon Creek Golf Course - upstream of  
Ornamental Lake

6.2 miles NE of Valencia on Carbon Canyon  
Road (Hwy. 142)

~~TAD HARRIS~~ 30  
PURPOSE

The purpose of sampling Carbon Canyon Creek was to evaluate if the water quality has decreased since the 1985 sampling. Sampling was performed to evaluate whether the Basin Plan Objectives objective of a rec-1 water body were being met. This data will also be compared to previous data taken in 1985 in order to evaluate if trends in water quality parameters are occurring. (Sampling sites)

DISCUSSION

This creek currently is not in the Basin Plan, Amendment and thus shows no beneficial uses. This waterbody may be included in the next amendment as a rec-1 waterbody and so these objectives will be compared to the data. The objective for Fecal Coliform states the log mean is less than 200/100ml based on five or more samples in a 30 day period, and not more than 10% of the samples exceed 400/100 ml for any 30-day period. Only 3 samples were taken on this creek, thus the first part of the objective can not be compared. The latter part states the objective is 400/100 ml for 90% of the samples over 30-day period. All but one of the sites would then meet this objective. This is the 2nd site with a fecal coliform count of 5000. In 1985, the coliform samples were analyzed by lab incorrectly and thus produced no results. Other constituents which seem to stand out when compared to 1985 data are nitrates and TDS. Nitrates went up at two of the stations. The golf course station (#3) more than doubled and the station upstream of the mineral springs (#2) went up slightly. These levels would still meet the basin plan objectives if this was a MUN waterbody. TDS was lower in two stations and higher at the golf course station. The levels of TDS are still predominately high, even though they went down.

The increased ~~in results~~, may be due to the time of year sampled.  
1985 results were in the spring while the 1992 results were obtained in the late summer months.

When were samples collected in 1985?

I'm wondering if some of parameters may be higher in 1992 because of the time of year that we sampled? possibly

- The fact that TSS were all ND and Nitrates are fairly low <sup>may</sup> indicate no septic system problem. But then why are the bacteria levels high? hmmm

How could we find out what's causing high coliform levels? Sampling at diff times throughout the year yes and polar

1985

Resampling - Total conv. time 23

Date: 3-11-85

Time: 0906 hours

Location Carbon Canyon Tensions Park  
one mile NE of Vassallo on Carbon Canyon Road  
(Aug. 142)

Legal location:

Sample #: 1

Sampled by: NAO

Weather: Cool & cloudy

Air Temp: ~65°F

Water Temp: 18°C

Water Appearance: Clear

Flow: Less than 0.1 cfs

Resamye : Total Dissolved Solids

Date: 3-11-85

Time: 0923 hours

Location ~~Dam Stream S<sup>2</sup> in 100' from House Spring, Franklin Co.~~  
~~(at road crossing)~~

~~3.5 miles NE of Williams on Franklin River Road (Hwy. 142)~~

Legal location:

Sample #: 2

Sampled by: NAO

Weather: Cool & cloudy

Air Temp: ~68°F

Water Temp: 47°C

Water Appearance: Clear

Flow: 1.377 cfs

$$A = 6.2 \text{ ft}^2 \quad Q = C \cdot A \quad Q = 10 \text{ / sec}$$

Resamp: % Total coliform / Fecal coliform

Date: 3-11-85

Time: 6:15 AM

Location Carbon Canyon Creek - Upstream of La Union Hot Springs - 2.6 miles NE of Valencia on Carbon Canyon Road (Hwy. 142).

Legal location:

Sample #: 3

Sampled by: NAO

Weather:

Air Temp:

Water Temp:

Water Appearance:

Flow:

4.5' CFS do 0.3'

1.470 cfs

Resample Total col / fecal col

Date: 3-1-86

Time: 10:30 AM

Location Carbon Canyon Creek - Rosemary Lane (Sleepy Hollow)  
4.7 miles NE of Valencia on Carbon Canyon Road (the rd)

Legal location:

Sample #: 4

Sampled by: NAO

Weather:

Air Temp:

Water Temp:

Water Appearance:

Flow: 0.75 cfs

Reservoir - flow (ft/sec)

Date:

Time:

Location Carbon Canyon Creek - Upstream of Sleepy Hollow  
2 miles NE of Canyon Hills Road

Legal location:

Sample #:

Sampled by: MAO

Weather:

Air Temp:

Water Temp:

Water Appearance:

Flow:  $W = 2.7'$   $A = 0.3$   $V = 10^3 / 15 \text{ sec.}$   
 $0.539 \text{ cfs}$

Resample : 3 miles Col / Freshet

Date: 3/11/88

Time: 1045

Location: ~~Coloma Creek - Golf Course Creek, the~~

~~Stream to the~~

~~2 miles NE of Valenzuela, Taylor County IL Hwy 42~~

Legal location:

Sample #: 6

Sampled by: NAD

Weather: (S) clear

Air Temp: ~68°F

Water Temp: 52°F

Water Appearance: Clear

Flow: less than 0.5 cfs

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVENUE

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P. O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



MAR 15 1985

TO Regional Water Quality Control Board #8  
6809 Indiana Ave.  
Riverside, CA 92506

Lab No. 850311-6139  
Invoice No. 40607

NOTE: Sampled)

on 3-11-85  
not 3-8-85 as  
listed on form

Submitted	Sampled
By _____	_____
Date 3-11	_____
Time 11:40	_____
Time Started 3:10	_____

Sample Mark	Standard Plate Count	Coliform Bacteria										Tubes +	MPN/100 ml
		ml Planted	Presumptive				Confirmed			Tubes +	MPN/100 ml		
1. Carbon run off of Park	1.0	24	+	+	+	+	+	+	-			24	++----
		48							-	4	34	2	9
		24	+	+	+	+	+	+	-			24	+-+---
		48							-	3		1	
		24	-	-	-	+	-	-	+			24	- - + -
	0.1	48	+	-	+	+			+			24	-----
		24										24	-----
		48										24	-----
		24										24	-----
		48										24	-----
2. Carbon run off area downstream La Vida Mineral Springs/Restaurant	1.0	24	+	+	+	+	+	+	+			24	++----
		48								5	300	3	8
		24	+	+	+	+	+	+	-			24	-----
		48							-			24	-----
		24	-	-	-	-	-	-	-			24	-----
	0.1	48	-	-	+	+	+	+	+	5		0	
		24										24	-----
		48										24	-----
		24										24	-----
		48										24	-----
3. Carbon run off creek downstream from Vida Health Springs	1.0	24	+	+	+	+	+	+	-			24	----+--
		48							-	3	11	1	2
		24	+	+	+	+	+	+	-			24	-----
		48							-			24	-----
		24	-	-	-	-	-	-	-			24	-----
	0.1	48	-	-	+	-	-	-	+	1		0	
		24										24	-----
		48										24	-----
		24										24	-----
		48								0		0	

CC: 2

SAWPA DES



001004581

EDWARD S. BABCOCK & SONS, INC.

*Edward S. Babcock*

CALLED

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY  
PHONE 684-1881  
AREA CODE 714  
LABORATORIES  
3215 CHICAGO AVENUE

ESTABLISHED 1906

**EDWARD S. BABCOCK & SONS, INC.**

P. O. BOX 432  
RIVERSIDE, CALIFORNIA 92502  
MAR 10 1965



TO Regional Water Quality Control Board #8  
6809 Indiana Ave.  
Riverside, CA 92506

Lab No. 850311-B139  
Invoice No. 40607

Submitted Sampled

By \_\_\_\_\_  
Date 3-8  
Time 11:40  
Time Started 3:40 AM

NOTE  
Sampled  
on 3-11-85  
not 3-8

Sample Mark	Standard Plate Count	Coliform Bacteria										Tubes +	MPN/10
		ml Plated	Presumptive			Confirmed			Tubes +	Fecal			
4 Jackson Canyon R.R. - Rosemary Test 12	1.0	24	+	+	+	+	+	+	24	+	+	+	+
		48							5	170			5 80
	0.1	24	+	+	+	+	+	-	24	-	+	+	-
		48							4				3
	0.01	24	+	+	-	+	+	-	24	-	-	-	-
		48	-						1				0
		24								24			
		48											
45 upstream of Sleepy Hollow (2 mi. NE of yon Hills Road)	1.0	24	+	+	+	+	+	-	24	-	-	-	-
		48							1	2			0 <2
	0.1	24	-	-	-	-	-	-	24	-	-	-	-
		48	+	+	+	+	+	-	0				0
	0.01	24	-	-	-	-	-	-	24	-	-	-	-
		48	+	+	+	+	+	-	0				0
		24								24			
		48											
46 Hwy Cross	1.0	24	+	+	+	+	-	24	+	+	+	+	4 13
		48							5	170			
	0.1	24	*	+	+	+	-	24	-	-	-	-	0
		48											
	0.01	24	-	-	-	-	+	24	-	-	-	-	0
		48	+	+	+	+	-	48	-	-	-	-	0
		24								24			
		48											

CC: 2

SAWPA DES



001004582

CALLED

EDWARD S. BABCOCK & SONS, INC.

*Edward S. Babcock*

# Carbon Canyon Creek

Date: 2/27/85

Tests: MBAS

Minerals-general

Total Coli/Fecal Coli

## Sample Stations:

1. Carbon Canyon Regional Park

(One mile NE of Valencia on Carbon Canyon Road (Hwy. 142)

2. Downstream from La Vida Mineral Springs

At road crossing = 3.3 miles NE of Valencia on  
Carbon Canyon Road (Hwy. 142)

3. Upstream from La Vida Mineral Springs

3.4 miles NE of Valencia on Carbon Canyon Road  
(Hwy. 142)

4. Rosemary Lane-Sleepy Hollow

4.7 miles NE of Valencia on Carbon Canyon Road  
(Hwy. 142)

(2)

Carbon Canyon Creek - Continued:

5. Upstream of Sleepy Hollow

5.6 miles NE of Valencia on Carbon Canyon  
Road (Hwy. 142)  
(.2 mi. of Canyon Hills Road)

6. Carbon Canyon Creek Golf Course - upstream of  
Ornamental Lake

6.2 miles NE of Valencia on Carbon Canyon  
Road (Hwy. 142)

Date: 7-27-85

Time: 1100 Hours

Location Carbon Canyon Regional Park  
One mile east of Valencia on Carbon Canyon Road  
(Hwy. 142)

Legal location:

Sample #: 1

Sampled by: JES/NAC

Weather: Slight Overcast

Air Temp: 70° F (estimated)

Water Temp: 15°C

Water Appearance: Clear

Flow: 1CFS (estimated)

Date: 2-27-85

Time: 1125 Hours

Location Downstream of La Vida Mineral Springs/Restaurant  
(at road crossing)

3.3 miles NE of Valencia on Carbon Canyon Road (Hwy. 142)

Legal location:

Sample #:

Sampled by: JES/NAO

Weather: Slightly Overcast

Air Temp: ~70°F

Water Temp: 19°C

Water Appearance: Lightly turbid

Flow: 0.75 cfs

(W=3' d=0.2' J= 10'/sec)

Date: 2-27-85

Time: 1200 Hours

Location Carbon Canyon Creek - Upstream from La Yoda Mineral Springs - 3.6 miles NE of Valencia on Carbon Canyon Road (Hwy. 142)

Legal location:

Sample #: # 3

Sampled by: JES/NAO

Weather: Slightly overcast/warm

Air Temp: 70° F - estimated

Water Temp: 16°C

Water Appearance: Clear

Flow: ~ 525 cfs

(W = 3.5' D = .15 V = 5'/sec.)

Date: 2-27-85

Time: 1300 Hours

Location Carbon Canyon Creek - Rosemary Lane (Sleepy Hollow)  
4.7 miles NE of Valencia on Carbon Canyon Road (Hwy. 142).

Legal location:

Sample #: 4

Sampled by: JES/NAO

Weather: Clear and warm

Air Temp: ~75°F

Water Temp: 17°C

Water Appearance: Clear

Flow: .773 cfs

(w = 2.9' d = .2 v = 10'/7.5 sec.)

Date: 2-27-85

Time: 1330 Hours

Location Carbon Canyon Creek - Upstream of Sleepy Hollow  
5.6 miles NE of Valencia on Carbon Canyon Road Hwy. 74  
2 miles NE of Canyon Hills Road

Legal location:

Sample #: #5

Sampled by: JES/NAO

Weather: Clear & Warm

Air Temp: ~75°F

Water Temp: 18°C

Water Appearance: Clear; algal growth on bottom

Flow: .509 cfs

(d = 0.2' w = 2.8' v = 10'/sec.)

Date: 2-27-85

Time: 1350

Location Carbon Canyon Creek - Golf Course (near the  
ornamental lake)  
6.2 miles NE of Valencia on Carbon Canyon Rd. (Hwy. 142)

Legal location:

Sample #: #6

Sampled by: JES/NAO

Weather: Clear & Warm

Air Temp: ~75°F

Water Temp: 18°C

Water Appearance: Clear

Flow: Less than 0.5 cfs

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



MAR 18 1985

3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-281  
Invoice No. 40280

#1  
Sample Marked: Carbon Canyon Creek at  
Regional Park

Submitted      Sampled  
By Joanne      NAG  
Date 2/27      2/27  
Time 3:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO <sub>3</sub>	604 mg/L	Specific Conductance pH	1960 umho/cm 7.7
Calcium (Ca)	128 mg/L	Total Filterable Residue	1310 mg/L
Magnesium (Mg)	68 mg/L	Carbon Dioxide	10 mg/L
Sodium (Na)	212 mg/L	Silica (SiO <sub>2</sub> )	14 mg/L
Potassium (K)	6 mg/L	Phosphate (PO <sub>4</sub> )	0.3 mg/L
Ammonium (NH <sub>4</sub> )	1.2 mg/L	Boron (B)	0.5 mg/L
Total Cations	21.51 me/L	Fluoride (F)	0.4 mg/L
Total Alkalinity as CaCO <sub>3</sub>	270 mg/L	Iron (Fe)	1.5 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO <sub>3</sub> )	None mg/L		
Bicarbonate (HCO <sub>3</sub> )	329 mg/L		
Sulfate (SO <sub>4</sub> )	540 mg/L		
Chloride (Cl)	146 mg/L		
Nitrate (NO <sub>3</sub> )	5 mg/L		
Total Anions	20.83 me/L		

Flow

~ 1CFS

Temperature

18 °C

Time

1100 hours

SAWPA DES



001004583

EDWARD S. BABCOCK & SONS, INC.

*Edward S. Babcock*

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.  
P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-278  
Invoice No. 40280

Submitted	Sampled
By Joanne	NAG
Date 2/27	2/27
Time 3:00	

Sample Marked: #2 Carbon Canyon Creek at  
Downstream of LaVida Health Club

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO <sub>3</sub>	650 mg/L	Specific Conductance	2940 umho/cm
Calcium (Ca)	110 mg/L	pH	7.7
Magnesium (Mg)	90 mg/L	Total Filterable Residue	1840 mg/L
Sodium (Na)	455 mg/L	Carbon Dioxide	20 mg/L
Potassium (K)	5 mg/L	Silica (SiO <sub>2</sub> )	21 mg/L
Ammonium (NH <sub>4</sub> )	1.7 mg/L	Phosphate (PO <sub>4</sub> )	<0.1 mg/L
Total Cations	33.00 me/L	Boron (B)	1.2 mg/L
Total Alkalinity as CaCO <sub>3</sub>	650 mg/L	Fluoride (F)	0.7 mg/L
Hydroxide (OH)	None mg/L	Iron (Fe)	0.15 mg/L
Carbonate (CO <sub>3</sub> )	None mg/L	MBAS	0.1 mg/L
Bicarbonate (HCO <sub>3</sub> )	793 mg/L		
Sulfate (SO <sub>4</sub> )	475 mg/L		
Chloride (Cl)	321 mg/L		
Nitrate (NO <sub>3</sub> )	13 mg/L		
Total Anions	32.15 me/L		

0.75 cfs

Flow

19 °C

Temperature

112.5 hours

Time

SAWPA DES



001004584

EDWARD S. BABCOCK & SONS, INC.

*Edward S. Babcock*

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



MAR 12 1985

3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-279  
Invoice No. 40280

Submitted	Sampled
By Joanne	NAG
Date 2/27	2/27
Time 3:00	

PARAMETER	RESULT	PARAMETER	RESULT
Total Hardness as CaCO <sub>3</sub>	838 mg/L	Specific Conductance	2130 umho/cm
Calcium (Ca)	160 mg/L	Total Filterable Residue	1500 mg/L
Magnesium (Mg)	105 mg/L	pH	8.0
Sodium (Na)	166 mg/L	Carbon Dioxide	6 mg/L
Potassium (K)	4 mg/L	Silica (SiO <sub>2</sub> )	22 mg/L
Ammonium (NH <sub>4</sub> )	<1 mg/L	Phosphate (PO <sub>4</sub> )	<0.1 mg/L
Total Cations	24.57 me/L	Boron (B)	0.3 mg/L
Total Alkalinity as CaCO <sub>3</sub>	350 mg/L	Fluoride (F)	0.5 mg/L
Hydroxide (OH)	None mg/L	Iron (Fe)	0.03 mg/L
Carbonate (CO <sub>3</sub> )	None mg/L	MBAS	<0.1 mg/L
Bicarbonate (HCO <sub>3</sub> )	427 mg/L		
Sulfate (SO <sub>4</sub> )	560 mg/L		
Chloride (Cl)	204 mg/L		
Nitrate (NO <sub>3</sub> )	13 mg/L		
Total Anions	24.63 me/L		

Flow  
Temperature  
Time

.525 cfs  
16 °C  
1200 hours

SAWPA DES



001004585

EDWARD S. BABCOCK & SONS, INC.

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.

P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-280  
Invoice No. 40280

Sample Marked: #4 Carbon Canyon Creek  
Rosemary Ln (Sleepy Hollow)

Submitted Sampled  
By Joanne NAG  
Date 2/27 2/27  
Time 3:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO <sub>3</sub>	834 mg/L	Specific Conductance	2070 umho/cm
Calcium (Ca)	175 mg/L	pH	8.0
Magnesium (Mg)	97 mg/L	Total Filterable Residue	1400 mg/L
Sodium (Na)	131 mg/L	Carbon Dioxide	6 mg/L
Potassium (K)	3 mg/L	Silica (SiO <sub>2</sub> )	30 mg/L
Ammonium (NH <sub>4</sub> )	1 mg/L	Phosphate (PO <sub>4</sub> )	0.3 mg/L
Total Cations	22.51 me/L	Boron (B)	0.4 mg/L
Total Alkalinity as CaCO <sub>3</sub>	388 mg/L	Fluoride (F)	0.4 mg/L
Hydroxide (OH)	None mg/L	Iron (Fe)	0.41 mg/L
Carbonate (CO <sub>3</sub> )	None mg/L	MBAS	<0.1 mg/L
Bicarbonate (HCO <sub>3</sub> )	473 mg/L		
Sulfate (SO <sub>4</sub> )	470 mg/L		
Chloride (Cl)	179 mg/L		
Nitrate (NO <sub>3</sub> )	21 mg/L		
Total Anions	22.94 me/L		

Flow

.773 cfs

Temperature

17 °C

Time

1300 hours

SAWPA DES  
001004586

EDWARD S. BABCOCK & SONS, INC.

*Sherman Babcock*

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.  
P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



MAP 18 1985

SANTA MONICA

3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-277  
Invoice No. 40280

Submitted      Sampled

Sample Marked: #5 Carbon Canyon Creek  
Upstream of Sleepy Hollow

By Joanne  
Date 2/27  
Time 3:00

NAG  
2/27

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO <sub>3</sub>	1000 mg/L	Specific Conductance pH	2070 umho/cm 7.8
Calcium (Ca)	250 mg/L	Total Filterable Residue	1480 mg/L
Magnesium (Mg)	90 mg/L	Carbon Dioxide	10 mg/L
Sodium (Na)	128 mg/L	Silica (SiO <sub>2</sub> )	34 mg/L
Potassium (K)	2 mg/L	Phosphate (PO <sub>4</sub> )	0.6 mg/L
Ammonium (NH <sub>4</sub> )	2 mg/L	Boron (B)	0.3 mg/L
Total Cations	25.73 me/L	Fluoride (F)	0.4 mg/L
Total Alkalinity as CaCO <sub>3</sub>	448 mg/L	Iron (Fe)	0.14 mg/L
Hydroxide (OH)	None mg/L	MBAS	0.1 mg/L
Carbonate (CO <sub>3</sub> )	15 mg/L		
Bicarbonate (HCO <sub>3</sub> )	515 mg/L		
Sulfate (SO <sub>4</sub> )	470 mg/L		
Chloride (Cl)	181 mg/L		
Nitrate (NO <sub>3</sub> )	19 mg/L		
Total Anions	24.14 me/L		

Flow  
Temperature  
Hours

500 CPS  
18 °C  
1330 hours

SAWPA DES  
001004587

EDWARD S. BABCOCK & SONS, INC.

*Sherman Babcock*

AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY

PHONE 684-1881  
AREA CODE 714

LABORATORIES  
3215 CHICAGO AVE.

ESTABLISHED 1906

EDWARD S. BABCOCK & SONS, INC.  
P.O. BOX 432  
RIVERSIDE, CALIFORNIA 92502



3/15/85

To: Regional Water Quality Control Board #8  
6809 Indiana Avenue, Suite 200  
Riverside, CA 92506

Lab No. 850227-282  
Invoice No. 40280

Submitted      Sampled

Sample Marked: #6 Carbon Canyon Creek  
*at golf course*

By Joanne  
Date 2/27  
Time 3:00

NAG  
2/27  
0

<u>PARAMETER</u>	<u>RESULT</u>	<u>PARAMETER</u>	<u>RESULT</u>
Total Hardness as CaCO <sub>3</sub>	592 mg/L	Specific Conductance	1310 umho/cm
Calcium (Ca)	160 mg/L	pH	7.5
Magnesium (Mg)	46 mg/L	Total Filterable Residue	870 mg/L
Sodium (Na)	65 mg/L	Carbon Dioxide	17 mg/L
Potassium (K)	2 mg/L	Silica (SiO <sub>2</sub> )	41 mg/L
Ammonium (NH <sub>4</sub> )	1.4 mg/L	Phosphate (PO <sub>4</sub> )	0.5 mg/L
Total Cations	14.79 me/L	Boron (B)	0.1 mg/L
Total Alkalinity as CaCO <sub>3</sub>	325 mg/L	Fluoride (F)	0.4 mg/L
Hydroxide (OH)	None mg/L	Iron (Fe)	0.30 mg/L
Carbonate (CO <sub>3</sub> )	None mg/L	MBAS	0.1 mg/L
Bicarbonate (HCO <sub>3</sub> )	397 mg/L		
Sulfate (SO <sub>4</sub> )	260 mg/L		
Chloride (Cl)	96 mg/L		
Nitrate (NO <sub>3</sub> )	22 mg/L		
Total Anions	14.98 me/L		

*Flow*

*<0.5 CFS*

*Temperature*

*18°C*

*Time*

*1350 hours*

SAWPA DES



001004588

EDWARD S. BABCOCK & SONS, INC.

*Sherman Babcock*

**AGRICULTURAL CONSULTANTS  
CHEMISTS  
APPROVED WATER LABORATORY**

**PHONE 684-1881  
AREA CODE 714**

LABORATORIES  
15 CHICAGO AVENUE

ESTABLISHED 1906

# **EDWARD S. BABCOCK & SONS, INC.**



P. O. BOX 432  
RIVERSIDE, CALIFORNIA 92502

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

MAR - 4 1985

Invoice No. 4028

**Submitted      Sampled**

By Lorraine

Date 2-27 2-27

Time 300

Time \_\_\_\_\_

Digitized by srujanika@gmail.com

Sample Mark	Standard Plate Count	Coliform Bacteria										Tubes +	MPN/100 ml									
		ml Plated	Presumptive			Confirmed			Tubes +	Fecal												
Carbon Canyon Regional Park	75700	10	24	+	+	+	+	+	24	+	+	+	+	24	+	+	+	+	+	5 > 16	5 > 16	
Downstream La Rio Health Club			48						48						24	+	+	+	+	+	5 > 16	5 > 16
Carbon Canyon Cr. upstream of La Vista	75700	10	24	+	+	+	+	+	24	+	+	+	+	5 > 16	24	+	+	+	+	+	5 > 16	5 > 16
Carbon Canyon Cr. at Rossmoy ditch			48						48						24	+	+	+	+	+	5 > 16	5 > 16
Carbon Canyon Cr. upstream of Sleepy Hollow	75700	10	24	+	+	+	+	+	24	+	+	+	+	5 > 16	24	+	+	+	+	+	5 > 16	5 > 16
Carbon Canyon Cr. at Golf Course			48						48						24	+	+	+	+	+	5 > 16	5 > 16
			24						24						24							
			48						48						24							
			24						24						24							
			48						48						24							
			24						24						24							
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			24						24						24							
			48						48						24							
			24						24						24							
			48						48						24							

SAWPA DEC



001004589

**EDWARD S. BABCOCK & SONS, INC.**

#### CALLED

1992

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SANTA ANA REGION

95 INDIANA AVENUE, SUITE 200  
VERSIDE, CALIFORNIA 92506

PHONE: (714) 684-9330



June 27, 1983

Mr. Ron Campbell  
General Manager  
Elsinore Valley Municipal Water District  
33751 Mission Trail Lane  
Elsinore, CA 92330

Dear Mr. Campbell:

Proposed Discharge Limitations for  
Regional Wastewater Treatment Facility

On May 13, 1983 the Regional Board adopted an updated Water Quality Control Plan for the Santa Ana River Basin. This Plan must now be approved by the State Water Resources Control Board and the Environmental Protection Agency. However, we do not expect any significant changes to result from their review.

The new Plan will require some minor changes in waste discharge requirements for the proposed regional system. In order to be consistent with the new Plan, and to insure that our proposed requirements are clear and known to all interested parties, we are providing the following information.

We have provided tentative requirements for the first three wastewater discharge alternatives recommended by your Blue Ribbon Advisory Committee, as well as for discharge to Lake Elsinore, to Temescal Wash within the Santa Ana Watershed, and to the San Jacinto River, even though these last three alternatives may not be among those now being seriously considered. This letter will supercede our previous letters of September 25, 1979, December 5, 1980 and May 14, 1981 on this subject.

The proposed waste discharge requirements (or NPDES permit values) listed below are subject to change after agency review and public hearing and are only official when adopted by the Regional Board, but they represent the staff's current recommendations.

Assumption 1 - Discharge of Effluent to Percolation Ponds located at Scales Way and Grand Avenue Site Near Lakeland Village.

This is considered a discharge to the Elsinore Ground Water Basin.

June 27, 1983

Proposed Waste Discharge Requirements

I.	Total Filtrable Residue	700 mg/l
	Total Hardness	290 mg/l
	Sodium	120 mg/l
	Chloride	125 mg/l
	Sulfate	100 mg/l
	Ammonia Nitrogen	14 mg/l
	Increment for TFR	250 mg/l

- II. Unless additional land is acquired, or reclamation uses found the total amount of effluent discharged into percolation ponds should be limited to 1 MGD.

The discharge of waste shall not cause a nuisance, or shall there be any discharge to the Lake.

Assumption 2 - Discharge of Effluent to Percolation Ponds located (a) near Nichols Road (east of freeway); (b) near Nichols Road (west of freeway); (c) Alberhill area.

This is considered a discharge to the watershed of Lee Lake Subbasin.

Proposed Waste Discharge Requirements:

I.	Total Filtrable Residue	750 mg/l
	Total Hardness	330 mg/l
	Sodium	150 mg/l
	Chloride	150 mg/l
	Sulfate	150 mg/l
	Ammonia Nitrogen	14 mg/l
	Increment for TFR	250 mg/l

- II. Effluent must be kept underground (if effluent rises and flows off of property controlled by discharger requirement similar to discharge to Temescal Wash must be met).

Assumption 3 - Discharge of Effluent to Percolation Ponds in McVicker Canyon.

This is considered a discharge to the Elsinore Ground Water Basin.

Proposed Waste Discharge Requirements

I. Total Filtrable Residue	700 mg/l
Total Hardness	290 mg/l
Sodium	120 mg/l
Chloride	125 mg/l
Sulfate	100 mg/l
Ammonia Nitrogen	14 mg/l
Increment for TFR	250 mg/l

- II. The amount of effluent discharged may be limited to assimilating capacity of basin for Total Filtrable Residue and Nitrate.

Assumption 4 - Direct Discharge of Effluent to Lake Elsinore.

This is considered a discharge to the lake at a point in the lake below elevation of 1250 feet. (No recharge of effluent to Elsinore Ground Water Basin).

Proposed NPDES Permit

I. The effluent must comply with Section 60315, Non-restricted Recreational Impoundment of Title 22 of California Administrative Code, (tertiary treatment).	
II. BOD	20 mg/l
Suspended Solids	20 mg/l
Total Nitrogen	1.5 mg/l
Total Phosphorus	0.5 mg/l
Total Filtrable Residue	850 mg/l
Total Coliform	2.2/100 mg/l
Turbidity	2 turbidity units

Assumption 5 - Discharge to Temescal Wash within the Santa Ana Watershed.

This is considered a discharge to the Santa Ana River, Reach 3. (Temescal Wash downstream from a point about 1/4 miles past the City of Lake Elsinore).

Proposed NPDES Permit

- I.a. Direct discharge - the effluent must comply with Section 60315. Non-restricted Recreational Impoundments of Title 22 of California Administrative Code (tertiary treatment).
- I.b. Indirect discharge - the effluent must have been kept underground for a sufficient period of time and distance to insure removal of all bacteria and viruses.

II.	Total Filtrable Residue	700 mg/l
	Total Hardness	330 mg/l
	Sodium	170 mg/l
	Chloride	165 mg/l
	Sulfate	180 mg/l
	Ammonia-Nitrogen	14 mg/l
	BOD	20 mg/l
	Suspended Solids	20 mg/l
	Turbidity	2 Turbidity units
	Coliform	2.2/100 mg/l

Assumption 6 - Discharge to the San Jacinto River Direct

This is considered a direct discharge to San Jacinto River, Lake Elsinore, and Elsinore Ground Water Basin.

Proposed NPDES Permit

1. The effluent must comply with Section 60315, Non-Restricted Recreational Impoundments of Title 22 of California Administrative Code (tertiary treatment).

II. Total Filtrable Residue	700 mg/l
Total Hardness	290 mg/l
Sodium	120 mg/l
Chloride	125 mg/l
Total Nitrogen	1.5 mg/l
Sulfate	100 mg/l
BOD	20 mg/l
Suspended Solids	20 mg/l
Total Phosphate	0.5 mg/l
Turbidity	2 Turbidity units
Coliform	2.2/100 mg/l

Sincerely,

JAMES W. ANDERSON  
Executive Officer

cc: John Grantham, James Montgomery Engineers - Pasadena

RRN:kyb